QC-ABSTRACT

Name of Work:- : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	Material	–	1	1	Cement
					Sand, Aggregates
2	Steel	0.24Tonne	1	1	-
3	M20	8.11Cum	2	3	Concrete Cube Compressive strength
4	M15	104.09 Cum	6	6	Concrete Cube Compressive strength
5	CPVC Pipe-20mm	228 M	1	1	–
6	CPVC Pipe-25mm	96 M	1	1	–
7	CPVC Pipe-32mm	81 M	1	1	–

Cubes	0-5 m^3	1set
	6-15 m^3	2set
	16-30 m^3	3set
	31-50 m^3	4 set

Add 1set for extra 50Cum

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2020-21

QUALITY CONTROL TEST REPORTS

Client:Executive Engineer,Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency: Sri. Purushotham Raju N,Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

PROJECT MANAGEMENT CONSULTANTS

Quality **M/S. CIVIL QUALITY CONSULTANTS& ENGINEERS**

(Buildings Geo-Tech &Road Materials Testing Laboratory)
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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date:06.05.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :April-2020
Date of Testing 04.05.2020 to 06.05.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.50%	-

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date 06.05.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Date of Testing 06.05.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	115	11.50	20.00	80.0	75-100
1.18	178	17.80	37.80	62.2	55-90
600 Micron	245	24.50	62.30	37.7	35-59
300 Micron	174	17.40	79.70	20.3	8-30
150 Micron	159	15.90	95.60	4.4	0-10

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TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Date of Testing 06.05.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	215	4.3	4.3	95.7	95-100
10	2465	49.3	53.6	46.4	25-55
4.75	1845	36.9	90.5	9.5	0-10

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TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing 06.05.2020
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	21	2.10	2.10	97.9	95-100
2.36	14	1.40	3.50	96.5	95-100
1.18	39	3.90	7.40	92.6	90-100
600 Micron	75	7.50	14.90	85.1	80-100
300 Micron	265	26.50	41.40	58.6	20-65
150 Micron	520	52.00	93.40	6.6	0-15

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TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing 06.05.2020
Material : Masonry Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	21	2.10	2.10	97.9	90-100
1.18	35	3.50	5.60	94.4	70-100
600 Micron	82	8.20	13.80	86.2	40-100
300 Micron	254	25.40	39.20	60.8	5-70
150 Micron	474	47.40	86.60	13.4	0-15

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 06.05.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample Identification : 8mm,10mm,12mm,16mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 06.05.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.398	512	596	14
2	Fe 500	10	0.619	524	602	25
3	Fe 500	12	0.888	506	615	20
4	Fe 500	16	1.582	529	617	18

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 22.06.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 32mm dia

Date of Testing 22.06.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	34.7	34.9 mm
2	Mean Outside Diameter (mm)	34.8	Min 34.8 mm Max 35 mm
3	Outside Diameter at Any Point (mm)	34.8	Min 34.7 mm Max 35.1 mm
4	Density	1520 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 22.06.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 20mm dia

Date of Testing 22.06.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.2	Min 22 mm Max 22.4 mm
4	Density	1498Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/PRN/WNo17/2020-21 22.06.2020

TEST REPORT ON CPVC PIPE

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: CPVC pipe 25mm dia

Date of Testing 22.06.2020

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	28.6	28.6 mm
2	Mean Outside Diameter (mm)	28.7	Min 28.5 mm Max 28.7 mm
3	Outside Diameter at Any Point (mm)	28.6	Min 28.4 mm Max 28.8 mm
4	Density	1499 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 09.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	09.06.2020	8.215	263.5	11.71
2	02.06.2020	09.06.2020	8.062	240.1	10.67
3	02.06.2020	09.06.2020	8.058	253.9	11.28

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 09.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	09.06.2020	8.059	262.5	11.67
2	02.06.2020	09.06.2020	8.039	254.6	11.32
3	02.06.2020	09.06.2020	8.157	249.3	11.08

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	09.06.2020	8.167	256.8	11.41
2	02.06.2020	09.06.2020	8.002	282.4	12.55
3	02.06.2020	09.06.2020	8.198	276.9	12.31

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 11.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	11.06.2020	8.034	268.2	11.92
2	04.06.2020	11.06.2020	8.169	259.7	11.54
3	04.06.2020	11.06.2020	8.075	270.9	12.04

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 11.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	11.06.2020	8.216	255.1	11.34
2	04.06.2020	11.06.2020	8.058	268.9	11.95
3	04.06.2020	11.06.2020	8.191	248.3	11.04

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Authorised Signatory

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 11.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	11.06.2020	8.074	267.5	11.89
2	04.06.2020	11.06.2020	8.225	280.4	12.46
3	04.06.2020	11.06.2020	8.169	253.9	11.28

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 30.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	30.06.2020	8.069	396.6	17.63
2	02.06.2020	30.06.2020	8.154	389.2	17.30
3	02.06.2020	30.06.2020	8.075	391.7	17.41

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 30.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	30.06.2020	8.157	402.5	17.89
2	02.06.2020	30.06.2020	8.098	413.5	18.38
3	02.06.2020	30.06.2020	8.096	398.6	17.72

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 30.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2020	30.06.2020	8.013	392.6	17.45
2	02.06.2020	30.06.2020	8.167	405.9	18.04
3	02.06.2020	30.06.2020	8.136	386.1	17.16

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 02.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	02.07.2020	8.205	402.6	17.89
2	04.06.2020	02.07.2020	8.179	389.1	17.29
3	04.06.2020	02.07.2020	8.035	395.7	17.59

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 02.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	**: Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	02.07.2020	8.167	412.5	18.33
2	04.06.2020	02.07.2020	8.138	399.7	17.76
3	04.06.2020	02.07.2020	8.192	382.1	16.98

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 02.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	02.07.2020	8.200	389.5	17.31
2	04.06.2020	02.07.2020	8.169	376.2	16.72
3	04.06.2020	02.07.2020	8.210	392.8	17.46

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 18.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2020	18.05.2020	8.025	346.9	15.42
2	11.05.2020	18.05.2020	8.069	358.6	15.94
3	11.05.2020	18.05.2020	8.185	360.1	16.00

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 25.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	**: Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2020	25.05.2020	8.025	362.5	16.11
2	18.05.2020	25.05.2020	8.188	354.6	15.76
3	18.05.2020	25.05.2020	8.098	349.3	15.52

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 01.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2020	01.06.2020	8.158	526.3	23.39
2	25.05.2020	01.06.2020	8.096	504.8	22.44
3	25.05.2020	01.06.2020	8.032	531.9	23.64

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 08.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.05.2020	08.06.2020	8.215	531.5	23.62
2	11.05.2020	08.06.2020	8.097	520.9	23.15
3	11.05.2020	08.06.2020	8.153	526.7	23.41

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 15.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2020	15.06.2020	8.154	352.2	15.65
2	18.05.2020	15.06.2020	8.096	346.6	15.40
3	18.05.2020	15.06.2020	8.032	370.1	16.45

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 22.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	**: Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2020	22.06.2020	8.065	513.3	22.81
2	25.05.2020	22.06.2020	8.074	528.8	23.50
3	25.05.2020	22.06.2020	8.099	506.6	22.52

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